

## IN THE CLAIMS

The entire pending claim set is provided for the Examiner's convenience. A marked-up version of the claims is provided in Appendix A attached to this document.

Please cancel claim 15 without prejudice or disclaimer and amend claims 1 and 14:

*Sub B1*  
*ALG*

1. (Amended) A method for migrating data having a first format type to a second format type, comprising:

3 adding at least one drive to a system controller controlling a predetermined  
4 number of storage devices arranged in a digital array storage devices to form a  
5 system drive; and  
6 converting data in a first format type on the digital array of storage devices to  
7 a format of a second type; and  
8 migrating the converted data onto the added at least one drive.

1 2. (Unchanged) The method of claim 1 wherein the adding at least one  
2 drive further comprises:  
3 formatting a first drive in the second format type; and  
4 adding the first drive formatted in the second format type to the system drive  
5 of the system controller.

1           3. (Unchanged) The method of claim 2 wherein the converting further  
2           comprises:

3           re-laying out data stored on the predetermined number of storage devices  
4           arranged in the digital array storage devices forming the system drive using the  
5           predetermined number of storage devices and the added first drive formatted in the  
6           second format type;

7           adding second drive formatted in the second format type to the system  
8           controller; and

9           migrating data of first format type from one of the predetermined number of  
10          storage devices to the added second drive in the second format type.

1           4. (Unchanged) The method of claim 3 wherein the migrating is  
2           performed by the system controller using a background process.

1           5. (Unchanged) The method of claim 4 wherein the system controller  
2           performs data writes to both the one of the predetermined number of storage  
3           devices and the added second drive during the migration performed by the  
4           background process.

1           6. (Unchanged) The method of claim 3 wherein the one of the  
2           predetermined number of storage devices is removed after the migration is  
3           completed, an additional drive formatted in the second format type is added in its  
4           place and data of the first format type from another of the predetermined number of  
5           storage devices is migrated to the additional drive in the second format type.

1        7. (Unchanged) The method of claim 3 wherein the migrating is  
2        performed by the system controller using a regeneration function when the one of  
3        the predetermined number of storage devices fails before the migration has  
4        completed.

1        8. (Unchanged) The method of claim 2 wherein the converting further  
2        comprises:

3            re-laying out data stored on the predetermined number of storage devices  
4        arranged in the digital array of storage devices forming the system drive using the  
5        predetermined number of storage devices and the added first drive formatted in the  
6        second format type;

7            removing one of the predetermined number of storage devices arranged in  
8        the digital array of storage devices forming the system drive;

9            reformatting the removed storage device to the second format type;

10          reinstalling the reformatted storage device; and

11          rebuilding data in the first format type onto the reinstalled storage device in  
12        the second format type using a regeneration function.

1        9. (Unchanged) The method of claim 1 wherein the adding at least one  
2        drive to a system controller further comprises:

3            selecting drives to create a mirror system drive; and

4            formatting the mirror system drive using the second format type.

1       10. (Unchanged) The method of claim 9 wherein the converting data  
2       further comprises copying data from the predetermined number of storage devices  
3       arranged in the digital array storage devices in the first format type to the mirror  
4       system drive in the second format type.

1       11. (Unchanged) The method of claim 10 wherein the system controller  
2       performs data writes to both the system drive and the mirror system drive during the  
3       copying of the data to the mirror system drive.

1       12. (Unchanged) The method of claim 11 wherein the system drive is  
2       removed after completion of the copying process.

1       13. (Unchanged) The method of claim 11 wherein the first format type is  
2       512 bytes per sector and the second format type consists of one selected from the  
3       group comprising 520 bytes per sector, 524 bytes per sector and 528 bytes per  
4       sector.

1 14. (Amended) A storage system, comprising:  
2 a plurality of storage devices forming a system drive, the plurality of storage  
3 devices formatted in a first format type;  
4 a system controller, coupled to the plurality of storage devices, for controlling  
5 the plurality of storage devices forming the system drive; and  
6 at least one additional drive formatted in a second format type, coupled to the  
7 system controller, wherein the system controller converts data in a first format type  
8 on the plurality of storage devices to a format of a second type, and  
9 the converted data is migrated onto the at least one additional drive.

1 16. (Unchanged) The storage system of claim 14 wherein the system  
2 controller converts data in a first format type on the plurality of storage devices to a  
3 format of a second type on the first drive formatted in the second format type by re-  
4 laying out data stored on the plurality of storage devices and the added first drive  
5 formatted in the second format type, adding a second drive formatted in the second  
6 format type to the system controller; and migrating data of first format type from one  
7 of the plurality of storage devices to the added second drive in the second format  
8 type.

1 17. (Unchanged) The storage system of claim 16 wherein the migrating is  
2 performed by the system controller using a background process.

1 18. (Unchanged) The storage system of claim 17 wherein the system  
2 controller performs data writes to both the one of the plurality of storage devices and  
3 the added second drive during the migration performed by the background process.

1        19. (Unchanged) The storage system of claim 16 wherein the one of the  
2        plurality of storage devices is removed after the migration is completed, an additional  
3        drive formatted in the second format type is added in its place and data of the first  
4        format type from another of the plurality of storage devices is migrated to the  
5        additional drive in the second format type.

1        20. (Unchanged) The storage system of claim 16 wherein the migrating is  
2        performed by the system controller using a regeneration function when the one of  
3        plurality of storage devices fails before the migration has completed.

1        21. (Unchanged) The storage system of claim 15 wherein the system  
2        controller converts data in a first format type on the plurality of storage devices to a  
3        format of a second type on the first drive formatted in the second format type by re-  
4        laying out data stored on the predetermined number of storage devices arranged in  
5        the digital array of storage devices forming the system drive using the predetermined  
6        number of storage devices and the added first drive formatted in the second format  
7        type, removing one of the predetermined number of storage devices arranged in the  
8        digital array of storage devices forming the system drive, reformatting the removed  
9        storage device to the second format type, reinstalling the reformatted storage device  
10       and rebuilding data in the first format type onto the reinstalled storage device in the  
11       second format type using a regeneration function.

1        22. (Unchanged) The storage system of claim 14 wherein the at least one  
2        drive further comprises a plurality of additional storage devices arranged to form a  
3        mirror system drive, wherein the plurality of additional storage devices arranged to  
4        form the mirror system drive are formatted using the second format type.

1        23. (Unchanged) The storage system of claim 22 wherein the system  
2        controller converts data by copying data from the plurality of storage devices in the  
3        first format type to the mirror system drive formatted in the second format type.

1        24. (Unchanged) The storage system of claim 23 wherein the system  
2        controller performs data writes to both the system drive and the mirror system drive  
3        during the copying of the data to the mirror system drive.

1        25. (Unchanged) The storage system of claim 24 wherein the plurality of  
2        storage devices forming the system drive are removed after completion of the  
3        copying process to the mirror drive.

1        26. (Unchanged) The storage system of claim 14 wherein the first format  
2        type is 512 bytes per sector and the second format type consists of one selected  
3        from the group comprising 520 bytes per sector, 524 bytes per sector and 528  
4        bytes per sector.